



BRITISH TUNNELLING SOCIETY

Thursday 14th June 2012 at 6.00pm

At The

**INSTITUTION OF CIVIL ENGINEERS
ONE GREAT GEORGE STREET, WESTMINSTER, LONDON SW1P 3AA**

THE THAMES WATER LEE TUNNEL – LONDON'S DEEPEST AND LARGEST

ROGER MITCHELL – CH2M Hill

SCOTT MCFADZEN – Morgan Sindall

JEAN-CHRISTOPHE GALAN – Vinci Construction

The 7.2m ID, 6.9km long Lee Tunnel is under construction in East London between the Beckton Sewage Treatment Works and the Abbey Mills Pumping Station complex. With depths ranging from 65m and 80m, it is London's deepest tunnel. When completed in 2015, it will reduce by 40% the foul water discharges to the River Thames system in London.

In January 2010 Thames Water commissioned contractor MVB Consortium (comprising Morgan Sindall, Vinci Construction Grands Projets and Bachy Soletanche) to design and build the Lee Tunnel under the NEC 3 Option C form of contract. Four shafts, the largest ever constructed in London, have been completed. The main tunnel is being constructed through the Chalk using a Herrenknecht slurry shield TBM. Groundwater pressures of up to 8 bar are expected.

The presentation will include coverage of the design and construction of the double lined shafts, including innovative design features of both the diaphragm wall primary lining and the twin sided slipformed secondary lining. Novel aspects of the main tunnel drive will be described, as well as other interesting facets of this huge and exciting project.

Tea and biscuits will be available at 5:30pm

Advance booking not required

In case of any query please contact; The Secretary, BTS Tel: 020 7665 2229

or e-mail: bts@ice.org.uk

or visit: <http://www.britishtunnelling.org.uk>